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TWENTY-NINTH ANNUAL MEETING.

PROCEEDINGS.

The Kansas Academy of Science convened for the opening session of its twenty-ninth annual meeting in the Y. M. C. A. room of Washburn College, Topeka, at 2:30 P. M., December 31, 1896. President D. S. Kelly in the chair.

The following committees were appointed by the president :

Program and press : E. B. Knerr, E. Miller, J. T. Willard.

Membership : B. B. Smyth, J. W. Beede, J. W. Wilson.

Nominations : L. E. Sayre, A. H. Thompson, A. S. Hitchcock.

Resolutions : S. W. Williston, A. S. Hitchcock, A. J. Stout.

Necrology ; B. B. Smyth, E. H. S. Bailey.

Time and place for next meeting : E. H. S. Bailey, J. T. Lovewell, E. B. Knerr, A. J. Smith, J. T. Willard.

The secretary called the roll of members and noted those present.

The secretary read the correspondence for the past year.

Treasurer Sayre read his report, which was referred to an auditing committee, as follows : F. O. Marvin, F. W. Bushong, J. T. Willard.

The reading of papers was then entered upon :

1. Barite nodules in wood, E. B. Knerr.
2. An electric method for determining the mechanical equivalent of heat, J. T. Lovewell.
3. On the Pleistocene deposits of Kansas, S. W. Williston.
4. The timbered mounds of the Kaw reservation, C. N. Gould.
5. Alkyl hypobromites, F. W. Bushong.

On motion, Rev. J. D. Parker was made an honorary member.

President Fairchild, of the State Agricultural College, spoke in the interests of a measure in the United States Congress, looking toward a more satisfactory correlation of the work of the national Department of Agriculture, and he desired the coöperation of the Academy.

On motion, the chair appointed a committee of five to prepare a proper resolution, viz.: E. H. S. Bailey, J. T. Willard, E. B. Knerr, F. O. Marvin, A. S. Hitchcock. This committee reported subsequently, as follows :

Resolved, That we recognize the importance of a more stable organization of the divisions of scientific research in the United States Department of Agricul-

ture, and we heartily indorse a movement in that direction proposed in the present Congress.

A. H. Thompson and J. T. Lovewell, in behalf of the Topeka Philosophical Society, made announcements of a reception and banquet, to be tendered the Academy at 7 p. m. to-morrow in the parlors of the Congregational church.

The program for the evening was announced and Academy adjourned.

Academy assembled at 8 p. m. in Washburn College chapel, with President Kelly in the chair. It was agreed to omit all business and proceed at once to the reading of papers. The following papers, all illustrated by the lantern, were then listened to with great interest by the Academy and visitors :

6. The detection of adulteration in coffee, L. E. Sayre.
7. Mars and his moons, E. Miller.
8. The pollination of *Asclepias cornuti*, W. C. Stevens.

Adjourned, to meet in the morning in the Senate Chamber of the state-house, to hear the retiring president's address.

Academy was called to order by President Kelly. In the absence of both vice-presidents, E. H. S. Bailey was called to the chair. The President's address was then heard: "Science in the Public Schools."

A vote of thanks was voted President Kelly for his very able and timely address.

Vice-President Williston was called to the chair.

On motion, a committee was appointed to look into the matter of science teaching in the public schools, and to report at the next annual meeting of the Academy. Chair appointed D. S. Kelly, S. W. Williston, and A. S. Hitchcock.

The following papers were then called for and read:

9. Origin of coal, A. J. Smith.
10. Injurious insects, S. J. Hunter.
11. Water of crystallization and experiments with liquid ammonia, H. P. Cady.

Adjourned, to meet in the afternoon at Washburn College.

Academy assembled at 2:30 p. m., in Washburn College chapel. President Kelly occupied the chair.

The committee on nominations reported:

For president: S. W. Williston.

First vice-president: D. E. Lantz.

Second vice-president: A. S. Hitchcock.

Secretary: E. B. Knerr.

Treasurer: J. W. Beede.

Librarian: B. B. Smyth.

Curators: A. H. Thompson, B. B. Smyth, J. W. Beede.

On motion, the secretary was instructed to cast the ballot of the Academy for these officers.

The following papers were read:

12. *Equus* beds in central Kansas, J. W. Beede.

13. Efficiency of salicylic acid as a preservative of cider, E. H. S. Bailey.

14. The Mentor beds of Salina, A. W. Jones.

15. A preliminary report on the geology of Effingham ridge, J. W. Wilson.

16. Prehistoric mounds in Cowley county, C. N. Gould.

17. A weather-bureau kite, T. B. Jennings.

18. Notes on the ecological plant geography of Manhattan, A. S. Hitchcock.

19. Additions to the grasses of Kansas, A. S. Hitchcock.

20. The buried moraine of the Shunganunga, B. B. Smyth.

Adjourned, to meet at 9 A. M. to-morrow.

In the evening, the Academy assembled in the parlors of the First Congregational Church, to partake of a banquet given by the Topeka Philosophical Society in honor of the Academy of Science. A very enjoyable evening was had, during which the following toasts were responded to:

Master of ceremonies, Dr. A. H. Thompson.

Invocation.—Rev. L. Blakesley, of Topeka.

Our guests.—Pres. Geo. M. Herrick, of Washburn College.

Our hosts.—Pres. D. S. Kelly, of State Normal School.

Science and the pulpit.—Rev. A. S. Embree, of Topeka.

Science and education.—Miss Emma F. Root, of Bethany College.

The promotion of happiness in the detection of adulterants in food.—Prof. L. E. Sayre, of Kansas University.

The effect of frosting on poor-wills.—Prof. D. E. Lantz, of the Agricultural College.

Mesochorean greens (illustrated by specimens at hand).—Prof. E. B. Knerr, of Midland College.

Woman in science.—Miss Anna H. Adams, of Washburn College.

Telegram, "Latest news from Mars."—Prof. E. Miller, of the University.

Pushes, pulls and diffusion of the Philosophical Society.—H. R. Hilton, of Topeka.

The efficiency of salicylic acid as a preservative of the chemical knowledge of graduates.—Professor Bailey, of the State University.

JANUARY 2—9:30 A. M.

Washburn College.—President Kelly called the Academy to order, and introduced President elect S. W. Williston, who took the chair, acknowledging the honor in a graceful little speech.

Minutes of the previous session were read and approved.

The auditing committee reported that they had examined the treasurer's accounts, and found them correct.

The librarian presented his report, which was adopted.

On motion, the executive committee was instructed to place a suitable price on back numbers of the Transactions.

The report of the board of curators was read and accepted. This report called out considerable discussion on the condition of the scientific exhibits in the state-house; and a committee, with Professor Williston as chairman, was appointed to endeavor to secure a salaried officer by state appointment, whose duty it shall be to care for all scientific collections in the state-house.

The following papers were read:

21. So-called "glacial boulders" in McPherson county, J. W. Beede.

22. Some Kansas mineral waters, E. H. S. Bailey.

23. Some Atchison and Nemaha county mineral waters, E. B. Knerr.

24. Some reptilian remains from the Kansas Permian, S. W. Williston.

25. Propagation of erythrioniums, E. B. Knerr.

26. Pendulum experiments, J. T. Lovewell.

27. Formalin as a preservative of tissue, O. M. Ireland.

28. Some comparative physiographic forms in Kansas, J. W. Beede.

The following papers were read by title:

29. The Cheyenne bottoms, B. L. Miller.

30. A northern extension of the Comanche in central Kansas, J. W. Beede.

31. The gypsum deposits of Kansas, G. P. Grimsley.

32. The study of natural palimpsests, G. P. Grimsley.

33. The Lachnosterna of Kansas, W. Knaus.

34. Additions to the flora of Kansas, B. B. Smyth.

35. The utilization of a very common weed, L. E. Sayre.

36. A provisional list of the flowering plants of McPherson county, H. J. Harnly.

37. The chemical composition of some rocks used in cement plaster, E. H. S. Bailey..

38. The maximum value of the viscosity of the ether, A. S. Dunstan.

39. The Arickaree shale, W. N. Logan.

40. Notes and descriptions of Mydaidæ, S. W. Williston.

Mrs. Wood, of Topeka, appeared before the Academy in the interests of a petition to the state legislature to prohibit traveling mesmerists experimenting with children. The matter was referred to a committee: S. W. Williston, A. H. Thompson, Olin Templin.

Professor Bailey, as chairman of the committee on time and place for next meeting, reported that his committee had failed to reach a definite conclusion. Thereupon it was moved that the matter be left to a committee consisting of E. H. S. Bailey, J. W. Wilson, C. S. Parmenter, to report to the secretary in ample time before the next meeting.

The committee on resolutions reported the following, which was unanimously adopted:

Resolved, That the hearty and appreciative thanks of the Kansas Academy of Science be tendered to the president and faculty of Washburn College for the excellent facilities afforded the meetings of the Academy; to the members of the Topeka Philosophical Society for their most hospitable and generous entertainment, and to the citizens of Topeka who have aided in making the present sessions of the Academy successful and interesting.

S. W. WILLISTON,
A. S. HITCHCOCK,
J. W. WILSON,
Committee.

At the various sessions of the Academy, the following new members were elected: E. M. Hoisington, Great Bend; J. E. Shacklett, Fall River; C. W. Pratt, Howard; E. N. Parker, Potwin; F. W. Bushong, Emporia; Peter McVicar, Topeka; Edward Bumgardner, Lawrence; O. M. Irelan, Topeka; H. L. Nelson, Topeka; E. H. Heacock, Topeka; Benjamin L. Miller, Lawrence; D. E. Esterly, Topeka; R. B. Dunlevy, Winfield.

Academy adjourned.

E. B. KNERR,
Secretary,